

Configure Single Sign-on (SSO) with Duo Security

Set up Stack Overflow for Teams Enterprise for SAML SSO authentication with Duo Security.

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Tags | [Authentication](#) | [SAML](#) | [SSO](#) | [Duo Security](#) |

Applies to: Free Basic Business Enterprise

ADMIN PRIVILEGES REQUIRED

This documentation is for **Stack Overflow for Teams Enterprise**. Free, Basic, and Business users can access their documentation [here](#). [Find your plan](#).

Overview

Stack Overflow for Teams Enterprise (SOE) integrates with Duo Security for SAML 2.0 authentication. You can learn more about SAML in our [SAML 2.0 Overview](#) document.

To configure Duo Security authentication, you'll first need to have configured a SAML Identity Provider to provide primary authentication for Duo Single Sign-On. [Learn more about configuring the SAML Identity Provider with Duo Single Sign-On](#).

When setting up SAML authentication, you'll configure your SOE site and Duo Security in a back-and-forth process. We recommend having a browser tab or window open to each site.

THIS ARTICLE APPLIES TO STACK OVERFLOW FOR TEAMS ENTERPRISE ONLY.

Other Stack Overflow for Teams users should read [this article](#) instead. [Find your plan](#).

Protect an application in Duo Security

1. Sign in to your Duo Security administration panel.
2. On the left-hand side of the screen, click **Applications** then **Protect an Application**.
3. Enter "generic SAML" in the search bar. Locate the "Generic SAML Service Provider" option and click **Protect**.

[Dashboard](#) > [Applications](#) > Protect an Application

Protect an Application

Generic SAML

Application	Protection Type		
 Generic SAML Service Provider	2FA with SSO hosted by Duo (Single Sign-On)	Documentation	Protect

The main SAML configuration screen will appear. It includes the **Entity ID** and **Single Sign-On URL** fields you'll enter later into SOE.



Successfully added Generic SAML Service Provider - Single Sign-On to protected applications.
[Add another.](#)

[Dashboard](#) > [Applications](#) > Generic SAML Service Provider - Single Sign-On

Generic SAML Service Provider - Single Sign-On

[Authentication Log](#) | [Remove Application](#)

See the [Generic SSO documentation](#) to integrate Duo into your SAML-enabled service provider.

Metadata

Entity ID	https://sso-e323154e.sso.duosecurity.com/saml2/sp/DIRL54708H1WYEL03VII/metadata	Copy
Single Sign-On URL	https://sso-e323154e.sso.duosecurity.com/saml2/sp/DIRL54708H1WYEL03VII/sso	Copy
Single Log-Out URL	https://sso-e323154e.sso.duosecurity.com/saml2/sp/DIRL54708H1WYEL03VII/slo	Copy
Metadata URL	https://sso-e323154e.sso.duosecurity.com/saml2/sp/DIRL54708H1WYEL03VII/metadata	Copy

Configure settings in SOE

In a separate browser tab or window, log into SOE as an admin. Click **Admin settings** in the left-hand menu, then **Authentication**. Click **Use SAML 2.0** (if not already enabled).

SAML 2.0 settings

On the SAML 2.0 settings page, enter the following information.

- **Assertion consumer service URL** Enter the SAML 2.0 post URL of your SOE site ([https://\[your_site\].stackenterprise.co/auth/saml2/post](https://[your_site].stackenterprise.co/auth/saml2/post)).

- **Single sign-on service URL** Copy the **Single Sign-On URL** value from Duo Security and paste it here.
- **Issuer** Copy the **Entity ID** value from Duo Security and paste it here.
- **Audience restriction** Enter any value (we suggest **StackOverflowEnterprise**). You'll enter this into Duo Security in a later step.
- **Use Subject/NameID as user identifier** Leave this option checked.

Dashboard

ACCESS MANAGEMENT

Users and permissions

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Communities

INTEGRATION AND APPS

Currently authenticating using **SAML 2.0**

SAML 2.0 settings

Assertion consumer service URL

This is the /auth/saml2/post URL of your Stack Overflow Enterprise instance. Please make sure the Domain Name (FQDN) is correct. e.g., https://support-test-teams.stackenterprise.co/auth/saml2/post

Single sign-on service URL

Your identity provider's login URL

Single sign-on service protocol binding

☐ **HTTP-Redirect binding: Include SAML encoding parameter in query string**

Configure settings in Duo Security

Service provider

Next, you'll configure settings in the Service Provider section in Duo Security.

- **Metadata Discovery** Leave set to **None**.
- **Entity ID** Copy the Stack Overflow for Teams **Audience Restriction** value you created earlier (for example: **StackOverflowEnterprise**) and paste it here.
- **Assertion Consumer Service (ACS) URL** Enter the SAML 2.0 post URL of your SOE site (https://[your_site].stackenterprise.co/auth/saml2/post).

Leave the remaining fields from this section blank.

SAML response

In the SAML Response section of the page, set the following values.

- **NameID format** Set this to the option that ends in **:persistent** (for example: **urn:oasis:names:tc:SAML:2.0:nameid-format:persistent**).

SAML Response

NameID format *

urn:oasis:names:tc:SAML:2.0:nameid-format:persistent

The format that specifies how the NameID is sent to the service provider.

- **NameID attribute** Enter a user identifier that will never change (for example: login or user ID).
- **Signature algorithm** Select **SHA256**.
- **Signing options** Select **Sign response** and **Sign assertion**.
- **Assertion encryption** Leave this unselected.

NOTE: It's important to select a **NameID attribute** that is both unique and unchanging. A user's email address, for example, is unique but not unchanging (an updated email address would result in SOE creating a new, duplicated account for that user).

SAML attributes

In SAML 2.0, attributes (also called "assertions") are the fields that carry user information. SOE requires one attribute for the user's email address and another for display name.

1. Use the green (+) button to add **<Display Name>** and **<Email Address>** attributes in the **IdP Attribute** column.
2. In the corresponding **SAML Response Attribute** fields, enter **displayname** and **email**.

Map attributes	IdP Attribute	SAML Response Attribute
	<Display Name>	displayname
	<Email Address>	emailaddress

Map the values of an IdP attribute to another attribute name to be included in the SAML response. The SAML response attribute that automatically chooses the NameID attribute based on the IdP. Create custom

You can also add the following optional SAML attributes:

- Job title (as `jobtitle`)
- Department (as `department`)

When Duo Security includes `jobtitle` and `department` in the SAML response, SOE automatically updates these user data fields on login. Including these attributes also allows you to use SOE's [Connectivity](#) reporting feature.

3. To make the login process clearer to your users, assign a name to the application (for example: **Stack Overflow**). Users with Duo Push two-factor authentication will see the application name.

Settings

Type	Generic SAML Service Provider - Single Sign-On
------	--

Name	Stack Overflow
------	---------------------------

Duo Push users will see this when approving transactions.

4. Click **Save** at the bottom of the page to complete the Duo Security configuration.

Finalize SOE setup

SAML attributes

In SOE, copy and paste the SAML response attributes from Duo into the corresponding **Display name assertion** and **Email address assertion** fields. If you added the optional job title and department assertions, enter those here as well.

Display name assertion

e.g., `http://schemas.microsoft.com/identity/claims/displayname`, `displayName`

displayname

Email address assertion

e.g., `http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress`, `email`, `emailAddress`

emailaddress

Certificate

1. From the Downloads section in Duo Security, click **Download certificate**. Your browser will download a .crt file.

Downloads

Certificate	Download certificate	Expires: 01-19-2038
SAML Metadata	Download XML	

2. Open the .crt with a text editor (such as Notepad).
3. Copy the entire text of the certificate, including "-----BEGIN CERTIFICATE-----" and "-----END CERTIFICATE-----".



```
*Generic SAML Service Provider - Single Sign-On (1).crt - Notepad
File Edit Format View Help
-----BEGIN CERTIFICATE-----
MIIDCzCCAFOgAwIBAgIUeRs18T29wcmZqjdA5eVqSn5BQwIwDQYJKoZIhvcNAQEL
BQAwNjEVMBMGA1UECgwMRHVvIFNlY3VyaXR5MR0wGwYDVQQDDDBRESUVYNzRQTUJX
UzVTWTNjNFQ1SjAeFw0yMzA5MDgwOTM0MzFaFw0zODAxMTkwMzE0MDdaMDYxFTAT
BGNVBAoMDER1byBTZW11cm10eTEdMBsGA1UEAwwURlFwDc0UE1CV1M1U1kzSTRU
NUowggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQC+u19vL6NltcdJHS7U
bRUMGK5g5ElZDrr30CdZDl/nH9sWta2/+RakSa7En8oDPUYwOHPRI+aBwEJABEO
8DTn9e2I6Ugp/OCtaqB5hYewwzvRdQBeojl+zWD5UXp+skme9lPgYpY2NH6rVeha
ZrZn1u93b49ePgM7dYBmiH1efukL/lKfyKSQUw3ySu3yyORBxOmWEbE50JDZODa
i6eFdHt8vSM840sfLSk2+LgGQ0B0KHfu6MBaiiw4IZ+JeaflpUefoUYCj31XL5By
+0wcI1kjKteHvRWLwyT9es7hdgXX6Rd0mPU7FUFsXNTLzL3MlapSQ9Qu3+kwEoEt
XySxAgMBAAGjEzARMA8GA1UdEwEB/wQFMAMBAf8wDQYJKoZIhvcNAQELBQADggEB
ADSoPKvwfhZGQXhwn10JbNOUnGb/BUNqm44435qh0E+SeDL1E/Wsel4LqhJrnVUG
7ZeAC08LPSXC4kgeQIFeVDW/1NRv+dFVa518h0YRdDM0J/s7cdSFUFjo45y4VfPC
p7FnUn1U4sbLo1FjjHyxjt40tQzj11DI5e4YSut/VrqDesrDumasDu2XLQ4r0HvL
tzdaUP0YjIRV2WxPIVbhff0oeFOaMpirrj9yt95DW6I5hUMp2cshZiyRe19ZzQj
ZHd1x4jlm0iW/3Qf9fxQCLwYM11DfxNYbgwcVe5gZIJIK4RamPR60ww3ov9kwPt
no7v5SB8tbf1Fio0Wf9nkz0=
-----END CERTIFICATE-----
```

4. In SOE, click **Add certificate** and paste the copied text into the text box.
5. Click **Validate certificate** to check that the certificate is valid. You should see a green box with a success message.
6. Click **Save Settings** to save the SAML configuration.

When saving settings, SOE will first perform an authentication test. If the test succeeds, SOE will apply your new authentication settings. Logged-in users stay logged in, as all active user sessions remain valid.

If the test fails, SOE will not apply the authentication settings. You'll stay on the SAML settings page so you can troubleshoot and correct problems.

This test acts as a safety net to keep invalid authentication settings from locking users (yourself included) out of your site. If you do find your users locked out of your site, reach out to Stack Overflow product support for help.

You can also click **Test currently saved SAML configuration** to display technical details about your SAML authentication. You'll find these helpful for understanding what information your IdP and SOE exchange. This is also useful when troubleshooting.

Users should now be able to log in to your SOE instance with their SSO credentials.

Troubleshooting

Properly configuring SAML authentication can be tricky. For more information on troubleshooting, see the [SAML Authentication Troubleshooting](#) article.